

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/678,020	10/04/2000	Kiichiro Takahashi	1272.C0439	6101	
5514	7590 08/09/2006		EXAMINER		
FITZPATR	ICK CELLA HARPE	BRINICH, STEPHEN M			
	FELLER PLAZA K, NY 10112		ART UNIT	PAPER NUMBER	
7.5 7010	-,		2625		
			DATE MAILED: 08/09/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE

DATE MAILED:

U.S. Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	1			ATTORNEY DOCKET NO.	
			- FYANINED		
			EXAMINER		
			ART UNIT	PAPER	
				20051110	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

		Application No.	Applicant(s)	
Office Action Summary		09/678,020	09/678,020 TAKAHASHI ET A	
		Examiner	Art Unit	
		Stephen M. Brinich	2624	
Period	The MAILING DATE of this communication for Reply	appears on the cover sheet wi	th the correspondence ad	dress
WH - Ex aft - If I - Fa Ar	HORTENED STATUTORY PERIOD FOR REICHEVER IS LONGER, FROM THE MAILING tensions of time may be available under the provisions of 37 CFI or SIX (6) MONTHS from the mailing date of this communication pool of the properties of the pro	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a r . riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this colononed (35 U.S.C. § 133).	
Status				
1)[2a)[3)[This action is FINAL . 2b)	This action is non-final. wance except for formal matt		merits is
Dispos	ition of Claims			
5)[_ 6)[≥ 7)[_	Claim(s) 1-22 is/are pending in the applicated 4a) Of the above claim(s) 2-4,6,13-15 and 1 Claim(s) is/are allowed. Claim(s) 1,5,7-12,16 and 18-22 is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and	1 <u>7</u> is/are withdrawn from cons	ideration.	
Applica	tion Papers			
10)	The specification is objected to by the Exam The drawing(s) filed on is/are: a) a Applicant may not request that any objection to Replacement drawing sheet(s) including the cor The oath or declaration is objected to by the	accepted or b) objected to lead on the drawing (s) be held in abeyan rection is required if the drawing (ice. See 37 CFR 1.85(a). (s) is objected to. See 37 CF	, ,
Priority	under 35 U.S.C. § 119			
12)∑ ε	Acknowledgment is made of a claim for fore All b Some * c None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur See the attached detailed Office action for a	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National \$	Stage
Attachme	• •			
2)	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449 or PTO/SB, oer No(s)/Mail Date	Paper No(s	nummary (PTO-413) s)/Mail Date. <u>200</u> 60804 sformal Patent Application (PTO)-152)

Application/Control Number: 09/678,020 Page 2

Art Unit: 2625

DETAILED ACTION

1. The Office Action mailed 1/20/06 was returned as undelivered. A new copy of that action is attached below.

Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1, 5, 7-12, 16, & 18-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Helterline et al.

Re claims 1 & 12, Helterline et al discloses (Abstract; column 4, line 45 - column 5, line 32) an image processing and printing system in which a plurality of density correction data (contents of look-up table 52) are derived from a judgment of printing conditions (actual print density compared to ideal density of a printout). These data are then retained and used to perform density correction corresponding the result of this judgment, thereby calibrating the printer. Printing is thus performed in accordance with these printing conditions.

Re claims 5 & 16, the printing calibration regulates the volume of a generated ink drop (column 4, lines 55-63), which inherently determines the dot size generated by an ink jet printer. This determination is performed in accordance with printing conditions (as described above re claims 1 & 12) that

Art Unit: 2625

are determined in accordance with image data (the line width actually produced and the ideal line width desired).

Re claims 7-8 & 18-19, Helterline et al discloses a plurality of print elements (column 5, lines 33-47), each of which uses the retained calibration data.

Re claims 9-10 & 20-21, Helterline et al discloses (column 1, lines 43-48) an ink jet printing process in which ink is ejected from nozzles using thermal energy.

Re claims 11 & 22, Helterline et al discloses (column 5, lines 15-32) a printing condition judgment by means of a simulation printout (a "calibration run").

Response to Arguments

4. Applicant's arguments filed 7/14/05 have been fully considered but they are not persuasive.

Applicant argues (Response filed 7/14/05: page 2, lines 8-21) that the presently claimed "density correction data" and the presently claimed "printing condition" do not read upon the elements of the Helterline look-up table 52. In particular, Applicant argues (Response filed 7/14/05: page 2, lines 14-20) that the input ΔDV of Helterline is not a "printing condition" as set forth in the present invention and does not correspond to the stored "density correction data" of the present invention.

Application/Control Number: 09/678,020

Art Unit: 2625

Concerning the latter point, the outstanding rejection of record does not read the "density correction data" on the input ΔDV of Helterline, but rather reads the "density correction data" on the *output from* table 52 (which, by the inherent functioning of a look-up table, is stored therein).

Concerning the former point, the output from table 52 of Helterline is generated in response to the input ΔDV (Helterline column 4, line 60 - column 5, line 5) and has a direct effect upon the printed output of (Helterline column 5, lines 5-14). Thus, the quantity ΔDV is a condition according to which the printing means performs printing (i.e. a change in the quantity ΔDV will produce a corresponding change in the printing as a direct result), and is thus readable on the recited "printing condition".

Conclusion

5. Any inquiry concerning the contents of this communication or earlier communications from the examiner should be directed to Stephen M. Brinich at 571-272-7430.

Any inquiry relating to the status of this application or proceeding or any inquiry of a general nature concerning application processing should be directed to the Tech Center 2600 Customer Service center at 571-272-2600 or to the USPTO Contact Center at 800-786-9199 or 703-308-4357.

Art Unit: 2625

The examiner can normally be reached on weekdays 7:00-4:30, alternate Fridays off.

If attempts to contact the examiner and the Customer Service Center are unsuccessful, supervisor David Moore can be contacted at 571-272-7437.

Faxes pertaining to this application should be directed to the Tech Center 2600 official fax number, which is 571-273-8300 (as of July 15, 2005).

Hand-carried correspondence may be delivered to the Customer Service Window, located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

Stephen M Brinich

Examiner

Art Unit 2624

smb

August 4, 2006